IN THE CLAIMS

- 1. (previously presented) A solid type EC element having a substrate,
- a lower electrode layer formed on said substrate, an EC layer formed on said lower electrode layer, and an upper electrode layer formed on said EC layer,

said lower electrode layer being divided by one or more parting lines non-linearly formed along the outline of a desired coloring region so as to surround said desired coloring region into a portion for forming a coloring region including said desired coloring region and a portion for not forming a coloring region not including said desired coloring region in the state said portion for forming a coloring region and said portion for not forming a coloring region are not conducted to each other;

layers, which make up said EC layer, and said upper electrode layer being formed so as to entirely cover said coloring area; and

said upper electrode layer being not conducted to said portion for forming a coloring region of said lower electrode layer, and said upper electrode layer being conducted to said portion for not forming a coloring region of said lower electrode layer.

2. (previously presented) The solid type EC element according to claim 1, wherein said parting line or parting lines

makes or make up a main portion of the outline of said desired coloring region, and the outer edge of said upper electrode layer makes up the remaining portion of the outline of said desired coloring region.

- 3. (previously presented) The solid type EC element according to claim 1, wherein said portion for forming a coloring region possesses a shape characterizing the outward appearance of said desired coloring region.
- 4. (previously presented) The solid type EC element according to claim 1, wherein said portion for forming a coloring region of said lower electrode layer has a first region making up the desired coloring region and a second region, which is continuous with said first, and which extends to the outer edge of said lower electrode layer without making up the desired coloring region, demarcated by the outer edge position of the upper electrode layer, and

wherein said EC layer is formed in the state where said EC layer covers a portion from the whole of said first region of the portion for forming a coloring region of said lower electrode layer to a part of the second region thereof, and the upper electrode layer covers the whole of the first region of the portion for forming a coloring region of said lower electrode layer and does not covers the second region thereof.

5. (original) The solid type EC element according to claim 1, wherein said substrate is composed of a transparent substrate, said lower electrode layer is composed of a transparent electrode film, said upper electrode layer is composed of a metal-made reflecting film, said substrate is adhered to a plate material other than the substrate with an adhesive, and said lower electrode layer, said EC layer, and said upper electrode layer are intervened between the substrate and the plate other than the substrate to make up an EC mirror.

- 6. (original) The solid type EC element according to claim 1, wherein a plate other than the substrate is adhered to said substrate with an adhesive, said lower electrode layer, said EC layer, and said upper electrode layer are intervened between said substrate and the plate other than the substrate, wherein said substrate is composed of a transparent substrate, both of said lower electrode layer and said upper electrode layer are composed of transparent electrodes films, said adhesive is composed of a transparent adhesive, and said plate other than the substrate is composed of a transparent plate to make up a transmitting EC element.
- 7. (previously presented) The solid type EC element according to claim 1, wherein said substrate is composed of a transparent substrate, said lower electrode layer is composed of a transparent electrode film, said upper electrode layer is

composed of a transparent electrode film or a metal-made reflecting film, and said desired coloring region is formed into a desired shape selected from among letters, symbols and figures to make up a display element.

- 8. (previously presented) The solid type EC element according to claim 1, wherein said parting line makes up half or more the total length of the outline of said desired coloring region.
- 9. (previously presented) The solid type EC element according to claim 1, wherein said portion for forming a coloring region of the lower electrode layer has a portion narrower than the maximum width of the desired coloring region, and a portion which is made up of the outer edge of said upper electrode layer amongst the outline of the desired coloring region is formed on said portion for forming a coloring region where the width is narrower.
- 10. (previously presented) The solid type EC element according to claim 1, wherein a length of a portion constituted by the outer edge of said upper electrode layer amongst the outline of the desired coloring region is composed so as to be shorter than the maximum outer size of the desired coloring region.

- 11. (original) The solid type EC element according to claim
 1, wherein said parting line is formed inside of the outer edge
 of said substrate along the length longer than the total length
 of the outer edge of said substrate.
 - 12. Previously presented) A solid type EC element having a substrate;
 - a lower electrode layer formed on said substrate; an EC layer formed on said lower electrode layer; and an upper electrode layer formed on said EC layer;

said lower electrode layer being divided by one or more parting lines, which are non-linearly formed along the outline of a desired coloring region so as to surround said desired coloring region, and being formed so that both ends of the lines are deviated from the outline of said desired coloring region and extend to mutually different positions on the outer edge of said lower electrode layer, into a portion for forming a coloring region including said desired coloring region and a portion for not forming a coloring region not including said desired coloring region and said portion for not forming a coloring region are not conducted to each other; wherein layers, which make up said EC layer, and said upper electrode layer are formed so as to entirely cover said coloring area;

the outer edge of said EC layer being entirely formed outside of said desired coloring region; wherein the outer edge

of said upper electrode layer at a section which faces to said portion for not forming a coloring region of said lower electrode layer is totally formed outside of said desired coloring region, and at least part thereof outwardly projecting from said outer edge of the EC layer, and said upper electrode layer being conducted to said portion for not forming a coloring region of said lower electrode layer at the portion outwardly projecting from said outer edge of the EC layer;

the outer edge of said upper electrode layer at a section which faces to said portion for forming a coloring region of said lower electrode layer being totally formed at a portion inside of the edge of said EC layer along with the outline of said desired coloring region;

the outer edge of said upper electrode layer over an appropriate section before and after the position crossing to said parting lines being formed at a portion inside of the outer edge of said EC layer, whereby said upper electrode layer is not conducted to said portion for forming a coloring region of said lower electrode layer; and

the outline of said desired coloring region being delimited by the outline of a region where all of said portion for forming a coloring region of said lower electrode layer, said layers which make up said EC layer, and said upper electrode layer are overlapped with each other.

13. (previously presented) The solid type EC element

according to claim 12, wherein said parting line or parting lines makes or make up a main portion of the outline of said desired coloring region, and the outer edge of said upper electrode layer makes up the remaining portion of the outline of said desired coloring region.

- 14. (previously presented) The solid type EC element according to claim 12, wherein said portion for forming a coloring region possesses a shape characterizing the outward appearance of said desired coloring region.
- 15. (previously presented) The solid type EC element according to claim 12, wherein said portion for forming a coloring region of said lower electrode layer has a first region making up the desired coloring region and a second region, which is continuous with said first, and which extends to the outer edge of said lower electrode layer without making up the desired coloring region, demarcated by the outer edge position of the upper electrode layer, and

wherein said EC layer is formed in the state where said EC layer covers a portion from the whole of said first region of the portion for forming a coloring region of said lower electrode layer to a part of the second region thereof, and the upper electrode layer covers the whole of the first region of the portion for forming a coloring region of said lower electrode layer and does not covers the second region thereof.

- 16. (original) The solid type EC element according to claim 12, wherein said substrate is composed of a transparent substrate, said lower electrode layer is composed of a transparent electrode film, said upper electrode layer is composed of a metal-made reflecting film, said substrate is adhered to a plate material other than the substrate with an adhesive, and said lower electrode layer, said EC layer, and said upper electrode layer are intervened between the substrate and the plate other than the substrate to make up an EC mirror.
- 17. (original) The solid type EC element according to claim
 12, wherein a plate other than the substrate is adhered to said
 substrate with an adhesive, said lower electrode layer, said
 EC layer, and said upper electrode layer are intervened between
 said substrate and the plate other than the substrate, wherein
 said substrate is composed of a transparent substrate, both of
 said lower electrode layer and said upper electrode layer are
 composed of transparent electrodes films, said adhesive is
 composed of a transparent adhesive, and said plate other than
 the substrate is composed of a transparent plate to make up a
 transmitting EC element.
- 18. (previously presented) The solid type EC element according to claim 12, wherein said substrate is composed of a transparent substrate, said lower electrode layer is composed

of a transparent electrode film, said upper electrode layer is composed of a transparent electrode film or a metal-made reflecting film, and said desired coloring region is formed into a desired shape selected from among letters, symbols and figures to make up a display element.

- 19. (previously presented) The solid type EC element according to claim 12, wherein said parting line makes up half or more the total length of the outline of said desired coloring region.
- 20. (previously presented) The solid type EC element according to claim 12, wherein said portion for forming a coloring region of the lower electrode layer has a portion narrower than the maximum width of the desired coloring region, and a portion which is made up of the outer edge of said upper electrode layer amongst the outline of the desired coloring region is formed on said portion for forming a coloring region where the width is narrower.
- 21. (previously presented) The solid type EC element according to claim 12, wherein a length of a portion constituted by the outer edge of said upper electrode layer amongst the outline of the desired coloring region is composed so as to be shorter than the maximum outer size of the desired coloring region.

22. (original) The solid type EC element according to claim 12, wherein said parting line is formed inside of the outer edge of said substrate along the length longer than the total length of the outer edge of said substrate.

- 23.(currently amended) A process for producing a solid type EC element comprising:
- a film formation stage where a lower electrode layer are formed on a substrate;
- a stage where an etching treatment with a laser beam scanning is subjected to a surface of said lower electrode layer to form a parting line so as to surround a desired coloring region along the outline of the desired coloring region, whereby the lower electrode layer is divided into a portion forming a coloring region including the desired coloring region and a portion for not forming a coloring region not including the desired coloring region in such a manner that they are not conducted to each other;
- a stage where layers for making up an EC layer are formed on the lower electrode layer in such a manner that they covers the entire surface of the desired coloring layer region; and
- a stage where an upper electrode layer is formed on the EC layer in such a manner that said upper electrode layer covers the whole of the desired coloring region, and is not conducted to the portion for forming a coloring region of the lower electrode layer and is conducted to the portion for not forming a coloring

region of the lower electrode layer.

- 24. (original) The process for producing a solid type EC element according to claim 23, wherein a plurality of EC elements are formed on one substrate in each stage, and said substrate is cut into each EC element after the completion of each stage.
- 25. (previously amended) A process for producing a solid type EC element comprising:
- a film formation stage where a lower electrode layer are formed on a substrate;
- a stage where an etching treatment with a laser beam scanning is subjected to a surface of the lower electrode layer to form a parting line so as to surround a desired coloring region along the outline of the desired coloring region, in a non-linear manner and so that both ends are deviated from the outline of the desired coloring region and extend to the outer edge of the lower electrode layer at mutually different positions, whereby the lower electrode layer is divided by said parting line into a portion forming a coloring region including the desired coloring region and a portion for not forming a coloring region not including the desired coloring region in such a manner they are not conducted to each other;
- a stage where a coloring layer and a solid electrolyte layer are formed on the lower electrode layer having said parting line formed thereon using a common mask in such a manner that

they covers the entire surface of the desired coloring region; and

a stage where an upper electrode layer is formed on said EC layer utilizing a mask in such a manner that said upper electrode layer totally covers said desired coloring region; that the outer edge of said upper electrode layer at a section which faces to said portion for not forming a coloring region of said lower electrode layer is totally formed outside of said desired coloring region, and a part of said outer edge of said upper electrode layer projecting outside of said outer edge of the EC layer, and said upper electrode layer is conducted to said portion for not forming a coloring region of said lower electrode layer at the portion projecting outside of said outer edge of the EC layer; and that the outer edge of said upper electrode layer at a section which faces to said portion for forming a coloring region of said lower electrode layer is totally formed inside of the edge of said EC layer along with the outline of said desired coloring region, whereby said upper electrode layer is not conducted to said portion for forming a coloring region of said lower electrode layer.

26. (original) The process for producing a solid type EC element according to claim 25, wherein a plurality of EC elements are formed on one substrate in each stage, and said substrate is cut into each EC element after the completion of each stage.